

NSH

1/28/11

1-30

Please replace the paragraph beginning at page 6, lines 3, 7, 19, 20 and 25, with the following rewritten paragraph:

--up to per halo hetaryl having 1-3 heteroatoms selected from O, N and S, halo substituted C<sub>7</sub>-C<sub>24</sub> aralkyl up to per halo aralkyl, halo substituted C<sub>7</sub>-C<sub>24</sub> alkaryl up to per halo alkaryl, and -C(O)R<sub>g</sub> wherein R<sub>y</sub> is as defined below,

R<sub>a</sub> and R<sub>b</sub> preferably are,

a) independently hydrogen,

a carbon based moiety selected from ~~to~~ the group consisting of C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>1</sub>-C<sub>10</sub> alkoxy, C<sub>3-10</sub> cycloalkyl, C<sub>2-10</sub> alkenyl, C<sub>1-10</sub> alkenoyl, C<sub>6-12</sub> aryl, C<sub>3-12</sub> hetaryl having 1-3 heteroatoms selected from O, N and S, C<sub>3-12</sub> cycloalkyl having 0-3 heteroatoms selected from N, S and O, C<sub>7-24</sub> aralkyl, C<sub>7</sub>-C<sub>24</sub> alkaryl, substituted C<sub>1-10</sub> alkyl, substituted C<sub>1-10</sub> alkoxy, substituted C<sub>3-10</sub> cycloalkyl, having 0-3 heteroatoms selected from N, S and O, substituted C<sub>6-12</sub> aryl, substituted C<sub>3-12</sub> hetaryl having 1-3 heteroatoms selected from N, S and O, substituted C<sub>7-24</sub> aralkyl, substituted C<sub>7-24</sub> alkaryl, where R<sub>a</sub> and R<sub>b</sub> are a substituted group, they are substituted by halogen up to per halo, hydroxy, C<sub>1-10</sub> alkyl, C<sub>3-12</sub> cycloalkyl having 0-3 heteroatoms selected from O, S and N, C<sub>3-12</sub> hetaryl having 1-3 heteroatoms selected from N, S and O, C<sub>1-10</sub> alkoxy, C<sub>6-12</sub> aryl, C<sub>1-6</sub> halo substituted alkyl up to per halo alkyl, C<sub>6</sub>-C<sub>12</sub> halo substituted aryl up to per halo aryl, C<sub>3</sub>-C<sub>12</sub> halo substituted cycloalkyl having 0-3 heteroatoms selected from N, S and O, up to per halo cycloalkyl, halo substituted C<sub>3</sub>-C<sub>12</sub> hetaryl up to per halo hetaryl, halo substituted C<sub>7</sub>-C<sub>24</sub> aralkyl up to per halo aralkyl, halo substituted C<sub>7</sub>-C<sub>24</sub> alkaryl up to per halo alkaryl, and -C(O)R<sub>g</sub> wherein R<sub>g</sub> is as defined below; or

-OSi(R<sub>f</sub>)<sub>3</sub> where R<sub>f</sub> is hydrogen, C<sub>1-10</sub> alkyl, C<sub>1-10</sub> alkoxy, C<sub>3</sub>-C<sub>10</sub> cycloalkyl having 0-3 heteroatoms selected from O, S and N, C<sub>6-12</sub> aryl, C<sub>3</sub>-C<sub>12</sub> hetaryl having 1-3 heteroatoms selected from O, S and N, C<sub>7-24</sub> aralkyl, substituted C<sub>1-10</sub> alkyl, substituted C<sub>1</sub>-C<sub>10</sub> alkoxy, substituted C<sub>3</sub>-C<sub>12</sub> cycloalkyl having 0-3 heteroatoms selected from O, S and N, substituted C<sub>3</sub>-C<sub>12</sub> hetaryl having 1-3 heteroatoms selected from O, S, and N, substituted C<sub>6-12</sub> aryl, and substituted C<sub>7-24</sub> alkaryl, where R<sub>f</sub> is a substituted group it is substituted halogen up to per halo, hydroxy, C<sub>1-10</sub> alkyl, C<sub>3-12</sub> cycloalkyl having 0-3 heteroatoms selected from O, S and N, C<sub>3-12</sub> hetaryl having 1-3 heteroatoms selected from N, S and O, C<sub>1-10</sub> alkoxy, C<sub>6-12</sub> aryl, C<sub>7</sub>-C<sub>24</sub> alkaryl, C<sub>7</sub>-C<sub>24</sub> aralkyl, C<sub>1-6</sub> halo substituted alkyl up to per halo alkyl, C<sub>6</sub>-C<sub>12</sub> halo substituted aryl up to per halo aryl, C<sub>3</sub>-C<sub>12</sub> halo substituted cycloalkyl having 0-3--

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Please replace the paragraph beginning at page 7, lines ~~2, 3, 13-14~~ and 26-27 with the

following paragraph:

-- heteroatoms selected from N, S and O, up to per halo cycloalkyl, halo substituted C<sub>3</sub>-C<sub>12</sub> hetaryl up to per halo hetaryl, halo substituted C<sub>7</sub>-C<sub>24</sub> aralkyl up to per halo aralkyl, halo substituted C<sub>7</sub>-C<sub>24</sub> alkaryl up to per halo alkaryl, and -C(O)R<sub>g</sub> wherein R<sub>g</sub> is as defined below,

or

AB b) R<sub>a</sub> and R<sub>b</sub> together form a 5-7 member heterocyclic structure of 1-3 heteroatoms selected from N, S and O, or a substituted 5-7 member heterocyclic structure of 1-3 heteroatoms selected from N, S and O with substituents selected from the group consisting of halogen up to per halo, hydroxy, C<sub>1-10</sub> alkyl, C<sub>3-12</sub> cycloalkyl having 0-3 heteroatoms selected from O, S and N, C<sub>3-12</sub> hetaryl having 1-3 heteroatoms selected from N, S and O, C<sub>1-10</sub> alkoxy, C<sub>6-12</sub> aryl, C<sub>7</sub>-C<sub>24</sub> alkaryl, C<sub>7</sub>-C<sub>24</sub> aralkyl, halo substituted C<sub>1-6</sub> alkyl up to per halo alkyl, halo substituted C<sub>6</sub>-C<sub>12</sub> aryl up to per halo aryl, halo substituted C<sub>3</sub>-C<sub>12</sub> cycloalkyl having 0-3 heteroatoms selected from N, S and O, up to per halo cycloalkyl, halo substituted C<sub>3</sub>-C<sub>12</sub> hetaryl up to per halo hetaryl, halo substituted C<sub>7</sub>-C<sub>24</sub> aralkyl up to per halo aralkyl, halo substituted C<sub>7</sub>-C<sub>24</sub> alkaryl up to per halo alkaryl, and -C(O)R<sub>g</sub> wherein R<sub>g</sub> is as defined below,

or

c) one of R<sub>a</sub> or R<sub>b</sub> is -C(O)-, a C<sub>1</sub>-C<sub>5</sub> divalent alkylene group or a substituted C<sub>1</sub>-C<sub>5</sub> divalent alkylene group bound to the moiety L to form a cyclic structure with at least 5 members,

wherein the substituents of the substituted C<sub>1</sub>-C<sub>5</sub> divalent alkylene group are selected from the group consisting of halogen, hydroxy, C<sub>1-10</sub> alkyl, C<sub>3-12</sub> cycloalkyl having 0-3 heteroatoms selected from O, S and N, C<sub>3-12</sub> hetaryl having 1-3 heteroatoms selected from N, S and O, C<sub>1-10</sub> alkoxy, C<sub>6-12</sub> aryl, C<sub>7</sub>-C<sub>24</sub> alkaryl, C<sub>7</sub>-C<sub>24</sub> aralkyl, C<sub>1-6</sub> halo substituted alkyl up to per halo alkyl, C<sub>6</sub>-C<sub>12</sub> halo substituted aryl up to per halo aryl, C<sub>3</sub>-C<sub>12</sub> halo substituted cycloalkyl having 0-3 heteroatoms selected from N, S and O, up to per halo cycloalkyl, halo substituted C<sub>3</sub>-C<sub>12</sub> hetaryl up to per halo hetaryl, halo substituted C<sub>7</sub>-C<sub>24</sub> aralkyl up to per halo aralkyl, halo substituted C<sub>7</sub>-C<sub>24</sub> alkaryl up to per halo alkaryl, and -C(O)R<sub>g</sub> where R<sub>g</sub> is as defined below,--

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Please replace the paragraph beginning at page 9, lines ~~12 and 17~~, with the following paragraph:

AY --Z is preferably independently selected from the group consisting of -CN, -CO<sub>2</sub>R<sup>7</sup>, -C(O)R<sup>7</sup>, -C(O)NR<sup>7</sup>R<sup>7</sup>, -NO<sub>2</sub>, -OR<sup>7</sup>, -SR<sup>7</sup>, -NR<sup>7</sup>R<sup>7</sup>, -NR<sup>7</sup>C(O)OR<sup>7</sup>, -NR<sup>7</sup>C(O)R<sup>7</sup>, C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>1</sub>-C<sub>10</sub> alkoxy, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>1</sub>-C<sub>10</sub> alkenoyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl having 0-3 heteroatoms selected from O, N and S, C<sub>6</sub>-C<sub>14</sub> aryl, C<sub>3</sub>-C<sub>13</sub> hetaryl having 1-3 heteroatoms selected from O, N and S, C<sub>7</sub>-C<sub>24</sub> alkaryl, C<sub>7</sub>-C<sub>24</sub> aralkyl, C<sub>4</sub>-C<sub>23</sub> alkheteroaryl having 1-3 heteroatoms selected from O, N and S, substituted C<sub>1</sub>-C<sub>10</sub> alkyl, substituted C<sub>1</sub>-C<sub>10</sub> alkoxy, substituted C<sub>2</sub>-C<sub>10</sub> alkenyl, substituted C<sub>1</sub>-C<sub>10</sub> alkenoyl, substituted C<sub>3</sub>-C<sub>10</sub> cycloalkyl having 0-3 heteroatoms selected from O, N and S, substituted C<sub>6</sub>-C<sub>12</sub> aryl, substituted C<sub>7</sub>-C<sub>24</sub> alkaryl, substituted C<sub>7</sub>-C<sub>24</sub> aralkyl and substituted C<sub>4</sub>-C<sub>23</sub> alkheteroaryl having 1-3 heteroatoms selected from O, N and S; wherein if Z is a substituted group, the one or more substituents are selected from the group consisting of -CN, -CO<sub>2</sub>R<sup>7</sup>, -COR<sup>7</sup>, -C(O)NR<sup>7</sup>R<sup>7</sup>, -OR<sup>7</sup>, -SR<sup>7</sup>, -NO<sub>2</sub>, -NR<sup>7</sup>R<sup>7</sup>, -NR<sup>7</sup>C(O)R<sup>7</sup>, and -NR<sup>7</sup>C(O)OR<sup>7</sup>, wherein R<sup>7</sup> is as defined above.

M is preferably one or more bridging groups selected from the group consisting of -O-, -S-, -N(R<sup>7</sup>)-, -(CH<sub>2</sub>)<sub>m</sub>-, -C(O)-, -CH(OH)-, -(CH<sub>2</sub>)<sub>m</sub>O-, -(CH<sub>2</sub>)<sub>m</sub>S-, -(CH<sub>2</sub>)<sub>m</sub>N(R<sup>7</sup>)-, -O(CH<sub>2</sub>)<sub>m</sub>-CHX<sup>a</sup>-, -CX<sup>a</sup><sub>2</sub>-, -S-(CH<sub>2</sub>)<sub>m</sub>- and -N(R<sup>7</sup>)(CH<sub>2</sub>)<sub>m</sub>-, where m= 1-3, X<sup>a</sup> is halogen and R<sup>7</sup> is as defined above.--

NBH  
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9-23

Please replace the paragraph beginning at page 11, lines ~~11 and 12~~, with the following paragraph:

--The present invention is also directed to pharmaceutically acceptable salts of formula I.

AS Suitable pharmaceutically acceptable salts are well known to those skilled in the art and include basic salts of inorganic and organic acids, such as hydrochloric acid, hydrobromic acid, sulfuric acid, phosphoric acid, methanesulfonic acid, trifluoromethanesulfonic acid, benzenesulfonic acid, *p*-toluenesulfonic acid, 1-naphthalenesulfonic acid, 2-

naphthalenesulfonic acid, acetic acid, trifluoroacetic acid, malic acid, tartaric acid, citric acid, lactic acid, oxalic acid, succinic acid, fumaric acid, maleic acid, benzoic acid, salicylic acid, phenylacetic acid, and mandelic acid. In addition, pharmaceutically acceptable salts include acid salts of inorganic bases, such as salts containing alkaline cations (e.g., Li<sup>+</sup> Na<sup>+</sup> or K<sup>+</sup>),

AS  
alkaline earth cations (e.g.,  $Mg^{+2}$ ,  $Ca^{+2}$  or  $Ba^{+2}$ ), the ammonium cation, as well as acid salts of organic bases, including aliphatic and aromatic substituted ammonium, and quaternary ammonium cations, such as those arising from protonation or peralkylation of triethylamine, *N,N*-diethylamine, *N,N*-dicyclohexylamine, lysine, pyridine, *N,N*-dimethylaminopyridine (DMAP), 1,4-diazabicyclo[2.2.2]octane (DABCO), 1,5-diazabicyclo[4.3.0]non-5-ene (DBN) and 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU).--

NBH  
1/28/11  
Please replace the paragraph beginning at page 12, <sup>lines 8-14</sup> ~~line 12~~, with the following paragraph:

AC  
--Substituted and unsubstituted aminoquinolines, aminoisoquinolines and aminopyridines may be prepared using standard methods (see, for example: A.R. Katritsky et al. (Eds.). *Comprehensive Heterocyclic Chemistry II*, Vol. 5. M.H. Palmer. *Heterocyclic Compounds*; Arnold Ltd., London (1967). C.K. Esser et al. WO 96/18616. C.J. Donahue et al. *Inorg. Chem.* 30, 1991, 1588. E. Cho et al. WO 98/00402. A. Cordi et al. *Bioorg. Med. Chem.* 3, 1995, 129). In addition, many aminoquinolines, aminoisoquinolines and aminopyridines are commercially available.--

NBH  
1/28/11  
Please replace the paragraph beginning at page 20, <sup>lines 26-31</sup> line 31, with the following paragraph:

AN  
--It will be appreciated by those skilled in the art that the particular method of administration will depend on a variety of factors, all of which are considered routinely when administering therapeutics. It will also be understood, however, that the specific dose level for any given patient will depend upon a variety of factors, including, but not limited to the activity of the specific compound employed, the age of the patient, the body weight of the patient, the general health of the patient, the gender of the patient, the diet of the patient, time of--

NBH  
1/28/11  
Please replace the paragraph beginning at page 21, <sup>lines 1-20</sup> lines ~~3 and 15~~, with the following paragraph:

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-- administration, route of administration, rate of excretion, drug combinations, and the severity of the condition undergoing therapy. It will be further appreciated by one skilled in the art that the optimal course of treatment, i.e. the mode of treatment and the daily number of doses of a compound of Formula I or a pharmaceutically acceptable salt thereof given for a

defined number of days, can be ascertained by those skilled in the art using conventional treatment tests.

AS The compounds of Formula I are producible from known compounds (or from starting materials which, in turn, are producible from known compounds), e.g., through the general preparative methods shown below. The activity of a given compound to inhibit raf kinase can be routinely assayed, e.g., according to procedures disclosed below. The following examples are for illustrative purposes only and are not intended, nor should they be construed to limit the invention in any way.--

NBH Please replace the paragraph beginning at page 23, <sup>lines 1-29</sup> ~~line 3~~, with the following paragraph:

1/28/11 -- Melting points (mp) were determined using a Thomas-Hoover melting point apparatus or a Mettler FP66 automated melting point apparatus and are uncorrected. Fourier transform infrared spectra were obtained using a Mattson 4020 Galaxy Series spectrophotometer. Proton (<sup>1</sup>H) nuclear magnetic resonance (NMR) spectra were measured with a General Electric GN-Omega 300 (300 MHz) spectrometer with either Me<sub>4</sub>Si (δ0.00) or residual protonated solvent (CHCl<sub>3</sub> δ 7.26; MeOH δ 3.30; DMSO δ 2.49) as standard. Carbon (<sup>13</sup>C) NMR spectra were measured with a General Electric GN-Omega 300 (75 MHz) spectrometer with solvent (CDCl<sub>3</sub> δ 77.0; MeOD-d<sub>3</sub> δ 49.0; DMSO-d<sub>6</sub> δ 39.5) as standard. Low resolution mass spectra (MS) and high resolution mass spectra (HRMS) were either obtained as electron impact (EI) mass spectra or as fast atom bombardment (FAB) mass spectra. Electron impact mass spectra (EI-MS) were obtained with a Hewlett Packard 5989A mass spectrometer equipped with a Vacumetrics Desorption Chemical Ionization Probe for sample introduction. The ion source was maintained at 250 °C. Electron impact ionization was performed with electron energy of 70 eV and a trap current of 300 μA. Liquid-cesium secondary ion mass spectra (FAB-MS), an updated version of fast atom bombardment were obtained using a Kratos Concept 1-H spectrometer. Chemical ionization mass spectra (CI-MS) were obtained using a Hewlett Packard MS-Engine (5989A) with methane or ammonia as the reagent gas (1x10<sup>-4</sup> torr to 2.5x10<sup>-4</sup> torr). The direct insertion desorption chemical ionization (DCI) probe (Vacumetrics, Inc.) was ramped from 0-1.5 amps in 10 sec and held at 10 amps until all traces of the sample disappeared (~1-2 min). Spectra were scanned from 50-800 amu at 2 sec per scan. HPLC - electrospray mass spectra (HPLC ES-MS) were obtained using a Hewlett-Packard 1100 HPLC equipped with a quaternary pump, a variable wavelength

detector, a C-18 column, and a Finnigan LCQ ion trap mass spectrometer with electrospray ionization. Spectra were scanned from 120-800 amu using a variable ion time according to the number of ions in the source. Gas chromatography - ion selective mass spectra (GC-MS) were obtained with a Hewlett Packard 5890 gas chromatograph equipped with an HP-1 methyl silicone column (0.33 mM coating; 25 m x 0.2 mm) and a Hewlett Packard 5971 Mass Selective Detector (ionization energy 70 eV). Elemental analyses are conducted by Robertson Microlit Labs, Madison NJ.--

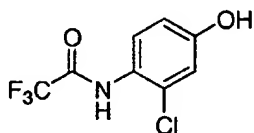
*WBA 1/28/11* *lines 1-2*  
Please replace the paragraph beginning at page 24, ~~line 2~~, with the following paragraph:

-- All compounds displayed NMR spectra, LRMS and either elemental analysis or HRMS consistent with assigned structures.--

*WBA 1/28/11* *lines 16-19*  
Please replace the paragraph beginning at page 33, ~~line 17~~, with the following paragraph:

-- A6. **General Method for the Synthesis of Anilines from Hydroxyanilines by N-Protection, Nucleophilic Aromatic Substitution and Deprotection.**

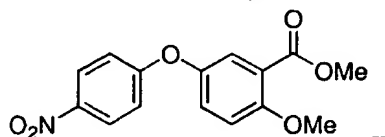
**Synthesis of 4-(2-(N-Methylcarbamoyl)-4-pyridyloxy)-2-chloroaniline**



*WBA 1/28/11* *lines 18-20*  
Please replace the paragraph beginning at page 35, ~~line 19~~, with the following paragraph:

-- A8. **General Method for Synthesis of  $\omega$ -Alkoxy- $\omega$ -carboxyphenyl Anilines.**

**Synthesis of 4-(3-(N-Methylcarbamoyl)-4-methoxyphenoxy)aniline.**

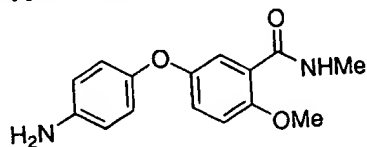


*WBA 1/28/11* *14-25*  
Please replace the paragraph beginning at page 36, lines ~~14, 23 and 25~~, with the following paragraph:

-- Step 3. **4-(3-(N-Methylcarbamoyl)-4-methoxyphenoxy)-1-nitrobenzene:**

*A13* To a solution of 4-(3-carboxy-4-methoxyphenoxy)-1-nitrobenzene (0.50 g, 1.75 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (12 mL) was added SOCl<sub>2</sub> (0.64 mL, 8.77 mmol) in portions. The resulting solution was heated at the reflux temp. for 18 h, cooled to room temp., and concentrated under reduced pressure. The resulting yellow solids were dissolved in CH<sub>2</sub>Cl<sub>2</sub> (3 mL) then the

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resulting solution was treated with a methylamine solution (2.0 M in THF, 3.5 mL, 7.02 mmol) in portions (CAUTION: gas evolution), and stirred at room temp. for 4 h. The resulting mixture was treated with a 1N NaOH solution, then extracted with CH<sub>2</sub>Cl<sub>2</sub> (25 mL). The organic layer was dried (Na<sub>2</sub>SO<sub>4</sub>) and concentrated under reduced pressure to give 4-(3-(*N*-methylcarbamoyl)-4-methoxyphenoxy)-1-nitrobenzene as a yellow solid (0.50 g, 95%).



**Step 4. 4-(3-(*N*-Methylcarbamoyl)-4-methoxyphenoxy)aniline:--**

1, 2, 10  
Please replace the paragraph beginning at page 45, line 10, with the following paragraph:

~BH 1/28/11  
**-- Step 1. 4-Chloro-*N*-(2-triisopropylsilyloxy)ethylpyridine-2-carboxamide**

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To a solution of 4-chloro-*N*-(2-hydroxyethyl)pyridine-2-carboxamide (prepared in a manner analogous to Method A2, Step 3b; 1.5 g, 7.4 mmol) in anhyd DMF (7 mL) was added triisopropylsilyl chloride (1.59 g, 8.2 mmol, 1.1 equiv.) and imidazole (1.12 g, 16.4 mmol, 2.2 equiv.). The resulting yellow solution was stirred for 3 h at room temp, then was concentrated under reduced pressure. The residue was separated between water (10 mL) and EtOAc (10 mL). The aqueous layer was extracted with EtOAc (3 x 10 mL). The combined organic phases were dried (MgSO<sub>4</sub>), and concentrated under reduced pressure to afford 4-chloro-2-(*N*-(2-triisopropylsilyloxy)ethyl)pyridinecarboxamide as an orange oil (2.32 g, 88%). This material was used in the next step without further purification.--

lines 4-10  
Please replace the paragraph beginning at page 46, line 10, with the following paragraph:

~BH 1/28/11  
A15  
-- A mixture of 5-hydroxy-2-methylpyridine (10.0 g, 91.6 mmol), 1-fluoro-4-nitrobenzene (9.8 mL, 91.6 mmol, 1.0 equiv), K<sub>2</sub>CO<sub>3</sub> (25 g, 183 mmol, 2.0 equiv) in DMF (100 mL) was heated at the reflux temperature overnight. The resulting mixture was cooled to room temperature, treated with water (200 mL), and extracted with EtOAc (3 x 100 mL). The combined organic layers were sequentially washed with water (2 x 100 mL) and a saturated NaCl solution ((100 mL), dried (MgSO<sub>4</sub>), and concentrated under reduced pressure to give 4-(5-(2-methyl)pyridyloxy)-1-nitrobenzene as a brown solid (12.3 g).--

9-22

Please replace the paragraph beginning at page 47, lines 9 and 21, with the following paragraph:

-- A19. Synthesis of  $\omega$ -Sulfonylphenyl Anilines. Synthesis of 4-(4-Methylsulfonylphenoxy)aniline.--

-- Step 2. 4-(4-Methylsulfonylphenoxy)-1-aniline: 4-(4-Methylsulfonylphenoxy)-1-nitrobenzene was reduced to the aniline in a manner analogous to that described in Method A17, step 3.--

Please replace the paragraph beginning at page 54, line 23, with the following paragraph:

-- A solution of 4-*tert*-butyl-2-aminopyridine (0.177 g, 1.18 mmol, 1 equiv.) in 1.2 mL of anhyd.  $\text{CH}_2\text{Cl}_2$  (1.2 mL) was added to CDI (0.200 g, 1.24 mmol, 1.05 equiv) and the mixture was allowed to stir under argon at room temperature 1 d. To the resulting solution was added 4-(4-chlorophenoxy)aniline (0.259 g, 1.18 mmol, 1 equiv.) in one portion. The resulting mixture was stirred at room temperature for 1 d, then was treated with a 10% citric acid solution (2 mL) and allowed to stir for 1 h. The resulting organic layer was extracted with EtOAc (3 x 5 mL). The combined organic layers were dried ( $\text{MgSO}_4$ ) and concentrated *in vacuo*. The resultant residue was treated with  $\text{CH}_2\text{Cl}_2$  (10 mL) and a 1 N aqueous NaOH solution. This mixture was allowed to stir overnight. The resulting organic layer was extracted with  $\text{CH}_2\text{Cl}_2$  (3 x 5 mL). The combined organic layers were ( $\text{MgSO}_4$ ) and concentrated *in vacuo*. The resultant solids were suspended in diethyl ether (10 mL) and sonicated for 15 minutes. The resulting white solid were dried to give *N*-(4-*tert*-butylpyridyl)-*N'*-(4-(4-chlorophenoxy)phenyl) urea (42 mg, 9%): mp 198-199 °C --

Please replace the paragraph beginning at page 55, lines 6 and 17, with the following paragraph:

-- resulting mixture was stirred at room temperature for 1 d, then was treated with a 10% citric acid solution (2 mL) and allowed to stir for 1 h. The resulting organic layer was extracted with EtOAc (3 x 5 mL). The combined organic layers were dried ( $\text{MgSO}_4$ ) and concentrated *in vacuo*. The resultant residue was treated with  $\text{CH}_2\text{Cl}_2$  (10 mL) and a 1 N aqueous NaOH solution. This mixture was allowed to stir overnight. The resulting organic layer was extracted with  $\text{CH}_2\text{Cl}_2$  (3 x 5 mL). The combined organic layers were dried ( $\text{MgSO}_4$ ) and concentrated *in vacuo*. The resultant solids were suspended in diethyl ether (10



mL) and sonicated for 15 minutes. The resulting white solid were dried to give *N*-(4-*tert*-butylpyridyl)-*N'*-(4-(4-chlorophenoxy)phenyl) urea (42 mg, 9%): mp 198-199 °C.

APB  
One of the anilines to be coupled was dissolved in dichloroethane (0.10 M). This solution was added to a 8 mL vial (0.5 mL) containing dichloroethane (1 mL). To this was added a bis(trichloromethyl) carbonate solution (0.12 M in dichloroethane, 0.2 mL, 0.4 equiv.), followed by diisopropylethylamine (0.35 M in dichloroethane, 0.2 mL, 1.2 equiv.). The vial was capped and heated at 80 °C for 5 h, then allowed to cool to room temp for approximately 10 h. The second aniline was added (0.10 M in dichloroethane, 0.5 mL, 1.0 equiv.), followed by diisopropylethylamine (0.35 M in dichloroethane, 0.2 mL, 1.2 equiv.). The resulting mixture was heated at 80 °C for 4 h, cooled to room temperature and treated with MeOH (0.5 mL). The resulting mixture was concentrated under reduced pressure and the products were purified by reverse phase HPLC.

1-18  
Please replace the paragraph beginning at page 56, lines 8 and 10, with the following paragraph:

NB4  
1/28/11  
A19  
-- To a stirring solution of phosgene (1.9 M in toluene; 2.07 mL 0.21 g, 1.30 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (20 mL) at 0 °C was added anhydrous pyridine (0.32 mL) followed by 2-methoxy-5-(trifluoromethyl)aniline (0.75 g). The yellow solution was allowed to warm to room temp during which a precipitate formed. The yellow mixture was stirred for 1 h, then concentrated under reduced pressure. The resulting solids were treated with anhydrous toluene (20 mL) followed by 4-(2-(*N*-methylcarbamoyl)-4-pyridyloxy)aniline (prepared as described in Method A2; 0.30 g) and the resulting suspension was heated at 80 °C for 20 h, then allowed to cool to room temp. The resulting mixture was diluted with water (100 mL), then was made basic with a saturated NaHCO<sub>3</sub> solution (2-3 mL). The basic solution was extracted with EtOAc (2 x 250 mL). The organic layers were separately washed with a saturated NaCl solution, combined, dried (MgSO<sub>4</sub>), and concentrated under reduced pressure. The resulting pink-brown residue was dissolved in MeOH and absorbed onto SiO<sub>2</sub> (100 g). Column chromatography (300 g SiO<sub>2</sub>; gradient from 1% Et<sub>3</sub>N/33% EtOAc/66% hexane to 1% Et<sub>3</sub>N/99% EtOAc to 1% Et<sub>3</sub>N/20% MeOH/79% EtOAc) followed by concentration under reduced pressure at 45 °C gave a warm concentrated EtOAc solution, which was treated with hexane (10 mL) to slowly form crystals of *N*-(2-methoxy-5-(trifluoromethyl)phenyl)-*N'*-(4-(2-(*N*-methylcarbamoyl)-4-pyridyloxy)phenyl) urea (0.44 g): TLC (1% Et<sub>3</sub>N/99% EtOAc) R<sub>f</sub>

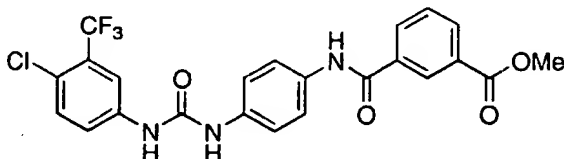
0.40.--

lines 12-17

NSH  
1/28/11  
Please replace the paragraph beginning at page 57, ~~line 14~~, with the following paragraph:

-- D. Interconversion of Ureas

D1a. Conversion of  $\omega$ -Aminophenyl Ureas into  $\omega$ -(Arylamino)phenyl Ureas.  
Synthesis of *N*-(4-Chloro-3-((trifluoromethyl)phenyl)-*N'*-(4-(3-methoxycarbonylphenyl)carboxyaminophenyl) Urea



lines 14-24

NSH  
1/28/11  
Please replace the paragraph beginning at page 60, ~~line 20~~, with the following paragraph:

A21  
-- *N*-(4-Chloro-3-(trifluoromethyl)phenyl)-*N'*-((4-(3-(5-methoxycarbonylpyridyl)oxyphenyl) urea was synthesized from 4-chloro-3-(trifluoromethyl)phenyl isocyanate and 4-(3-(5-methoxycarbonylpyridyl)oxyaniline (Method A14, Step 2) in a manner analogous to Method C1a. A suspension of *N*-(4-chloro-3-(trifluoromethyl)phenyl)-*N'*-((4-(3-(5-methoxycarbonylpyridyl)oxyphenyl) urea (0.26 g, 0.56 mmol) in MeOH (10 mL) was treated with a solution of KOH (0.14 g, 2.5 mmol) in water (1 mL) and was stirred at room temp. for 1 h. The resulting mixture was adjusted to pH 5 with a 1 N HCl solution. The resulting precipitate was removed by filtration and washed with water. The resulting solids were dissolved in EtOH (10 mL) and the resulting solution was concentrated under reduced pressure. The EtOH/concentration procedure was repeated twice to give *N*-(4-chloro-3-(trifluoromethyl)phenyl)-*N'*-((4-(3-(5-carboxypyridyl)oxyphenyl) urea (0.18 g, 71%).--

lines 19-27

NSH  
1/28/11  
Please replace the paragraph beginning at page 61, ~~line 24~~, with the following paragraph:

A22  
-- To a solution of *N*-(4-chloro-3-((trifluoromethyl)phenyl)-*N'*-(4-(4-(2-(*N*-(2-trisopropylsilyloxy)ethylcarbamoyl)pyridyloxyphenyl) urea (prepared in a manner analogous to Method C1a; 0.25 g, 0.37 mmol) in anhyd THF (2 mL) was tetrabutylammonium fluoride (1.0 M in THF; 2 mL). The mixture was stirred at room temperature for 5 min, then was treated with water (10 mL). The aqueous mixture was extracted with EtOAc (3 x 10 mL). The combined organic layers were dried (MgSO<sub>4</sub>) and concentrated under reduced pressure.

A22 The residue was purified by column chromatography (SiO<sub>2</sub>; gradient from 100% hexane to 40% EtOAc/60% hexane) to give *N*-(4-chloro-3-((trifluoromethyl)phenyl)-*N'*-(4-(4-(2-(*N*-(2-hydroxy)ethylcarbamoyl)pyridyloxyphenyl) urea as a white solid (0.019 g, 10%).--

lines 18-20

~BH  
1/28/11 Please replace the paragraph beginning at page 64, ~~line 18~~, with the following paragraph:

A23 -- Entry 15: According to Method C2d, 5-(trifluoromethyl)-2-methoxyaniline was reacted with CDI followed by 4-(3-*N*-methylcarbamoyl)-4-methoxyphenoxy)aniline, which had been prepared according to Method A8, to afford the urea.--

lines 27-31

~BH  
1/28/11 Please replace the paragraph beginning at page 65, ~~line 27~~, with the following paragraph:

A24 -- Entry 21: 4-(4-Methylthiophenoxy)-1-nitrobenzene was oxidized according to Method A19, Step 1 to give 4-(4-methylsulfonylphenoxy)-1-nitrobenzene. The nitrobenzene was reduced according to Method A19, Step 2 to give 4-(4-methylsulfonylphenoxy)-1-aniline. According to Method C1a, 5-(trifluoromethyl)-2-methoxyphenyl isocyanate was reacted with 4-(4-methylsulfonylphenoxy)-1-aniline to afford the urea.--

lines 14-19

~BH  
1/28/11 Please replace the paragraph beginning at page 72, ~~line 17~~, with the following paragraph:

A25 -- Entry 53: 4-(4-Methylthiophenoxy)-1-nitrobenzene was oxidized according to Method A19, Step 1 to give 4-(4-methylsulfonylphenoxy)-1-nitrobenzene. The nitrobenzene was reduced according to Method A18, Step 2 to give 4-(4-methylsulfonylphenoxy)-1-aniline. According to Method C1a, 4-chloro-3-(trifluoromethyl)phenyl isocyanate was reacted with 4-(4-methylsulfonylphenoxy)-1-aniline afford the urea.--

lines 24-29

~BH  
1/28/11 Please replace the paragraph beginning at page 76, ~~line 28~~, with the following paragraph:

A26 -- Entry 71: 4-(3-(5-Methoxycarbonyl)pyridyloxy)aniline was synthesized according to Method A14. 4-Chloro-3-(trifluoromethyl)-2-methoxyphenyl isocyanate was reacted with 4-(3-(5-methoxycarbonyl)pyridyloxy)aniline according to Method C1a to afford the urea. *N*-(4-Chloro-3-(trifluoromethyl)phenyl)-*N'*-(4-(3-(5-methoxycarbonyl)pyridyl)oxy)phenyl) urea was saponified according to Method D4, Step 1, and the corresponding acid was coupled with 4-(2-aminoethyl)morpholine to afford the amide.

#### IN THE CLAIMS

Please amend claims 2, 3, 5, 8, 10, 25 and 26 as follows.

A27 2. (Amended) A compound as in claim 1 wherein: